



DEPARTMENT OF THE AIR FORCE
59TH MEDICAL WING (AETC)
JOINT BASE SAN ANTONIO - LACKLAND TEXAS



8 MAR 2017

MEMORANDUM FOR SGDTG

ATTN: LCDR DANIEL J. FUHRMANN

FROM: 59 MDW/SGVU

SUBJECT: Professional Presentation Approval

1. Your paper, entitled Stainless Steel Crown Placement Utilizing the Hall Technique presented at/published to HINMAN Dental Society, 33 Lenox Pointe NE, Atlanta, GA, 23-25 March 2017 in accordance with MDWI 41-108, has been approved and assigned local file #17124.
2. Pertinent biographic information (name of author(s), title, etc.) has been entered into our computer file. Please advise us (by phone or mail) that your presentation was given. At that time, we will need the date (month, day and year) along with the location of your presentation. It is important to update this information so that we can provide quality support for you, your department, and the Medical Center commander. This information is used to document the scholarly activities of our professional staff and students, which is an essential component of Wilford Hall Ambulatory Surgical Center (WHASC) internship and residency programs.
3. Please know that if you are a Graduate Health Sciences Education student and your department has told you they cannot fund your publication, the 59th Clinical Research Division may pay for your basic journal publishing charges (to include costs for tables and black and white photos). We cannot pay for reprints. If you are a 59 MDW staff member, we can forward your request for funds to the designated Wing POC at the Chief Scientist's Office, Ms. Alice Houy, office phone: 210-292-8029; email address: alice.houy.civ@mail.mil.
4. Congratulations, and thank you for your efforts and time. Your contributions are vital to the medical mission. We look forward to assisting you in your future publication/presentation efforts.

Linda Steel-Goodwin

LINDA STEEL-GOODWIN, Col, USAF, BSC
Director, Clinical Investigations & Research Support

PROCESSING OF PROFESSIONAL MEDICAL RESEARCH/TECHNICAL PUBLICATIONS/PRESENTATIONS

INSTRUCTIONS

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NOTE: All abstracts, papers, posters, etc., should contain the following disclaimer statement:

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"The voluntary, fully informed consent of the subjects used in this research was obtained as required by 32 CFR 219 and DODI 3216.02_AFI 40-402."

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Stainless Steel Crown Placement Utilizing the Hall Technique

LCDR DANIEL J FUHRMANN



"The views expressed are those of the presenter and do not reflect official views or policy of the Department of Defense, or its Components or USUHS."

Indications for SSC Placement

- ▶ Restoration of primary molars requiring large multi-surface restorations
- ▶ Restoration of primary molars in children with rampant caries
- ▶ Restoration of teeth after pulp therapy
- ▶ Restoration of teeth with developmental defects
- ▶ Abutments for space maintainers



Traditional Technique

- ▶ Local Anesthetic
- ▶ Removal of Adequate Tooth Structure
- ▶ Complete Caries Removal
- ▶ Glass Ionomer Cementation



Traditional Technique



Pre-op



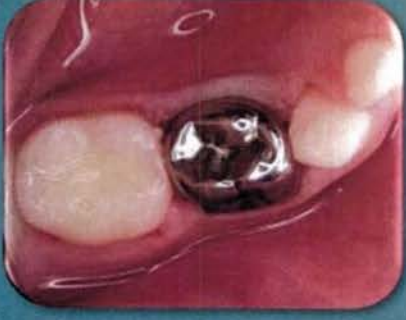
Occlusal Reduction



Interproximal Reduction



Caries Removal



Final Restoration

Photo Credit to Dr. Wengler

Hall Technique

- ▲ No Local Anesthetic
- ▲ No Caries Removal
- ▲ No Tooth Preparation



Separator to facilitate SSC insertion

Hall Technique

- ▶ Developed by Dr. Hall in United Kingdom Private Practice Setting
- ▶ Utilizes more minimally invasive/minimal intervention approach
 - ▶ Caries can be slowed, arrested, or even reversed if properly sealed
- ▶ Similar survival rates to traditional SSC's have been observed

▶ James N. Evans D, Simons D. The Hall Technique: a randomised controlled clinical trial of a novel method of managing carious primary molars in general dental practice: acceptability of the technique and outcomes at 23 months. *BMC Oral Health* 2007; 7:18.

Case Selection for Hall Technique

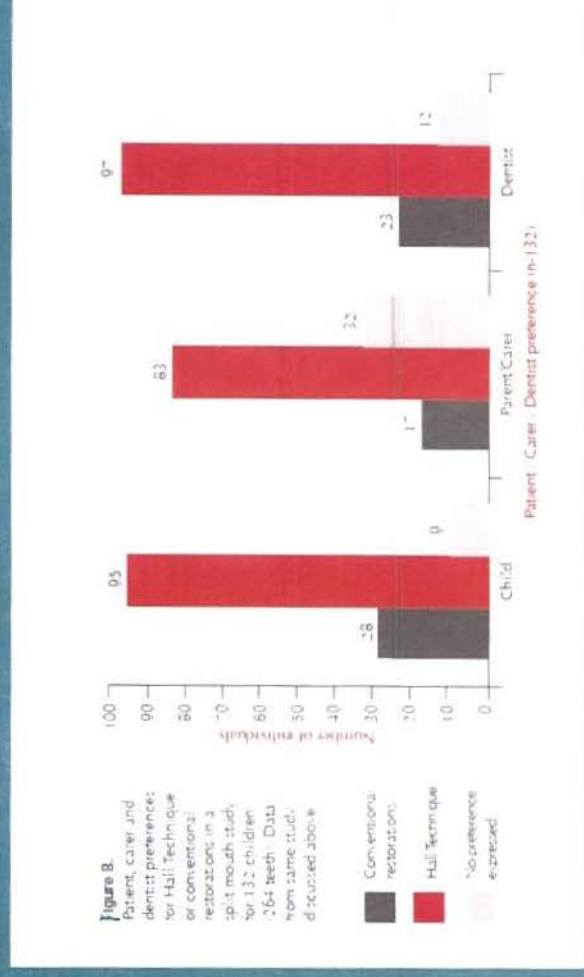
- ▶ Contraindications
 - ▶ Signs or symptoms of irreversible pulpitis or necrosis
 - ▶ Clinical or radiographic signs of pulpal involvement, or periapical pathology
 - ▶ Teeth diagnosed as non-restorable due to limited remaining tooth structure

Case Selection for Hall Technique

- ▶ Indications
 - ▶ Class I lesions with pts unable to accept conventional restoration
 - ▶ Class II lesions (both cavitated and noncavitated)



- ▶ Hall Technique and Traditional Technique (Mid 90% Success Rates)
- ▶ High degree of acceptance by pediatric patients and practitioners
- ▶ Most failures occur within first 24 months (Both Techniques)



Clinical Photos



1. Selection of tooth



2. Separation required



3. Separator in place

Photo Credit to Dr. Kersey

Clinical Photos



4. Selection of appropriate SSC

5. Seating SSC



6. Insertion of cement

7. Final cementation photo

Photo Credit to Dr. Kersey

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QUESTIONS?